Breakout Report – Feasibility, technical and engineering requirements

Summary of Community Needs

Data Frequency
- 1x per week minimum
- More than 1x per week preferred

Data Variables
- 2m temperature, precipitation, 500-hPa, 200-hPa height, RH, U850, U200, OLR, Tmax, Tmin, 10 m wind, soil moisture

- Snow related, Sea ice cover, Clouds, Evapotranspiration, Probabilistic extremes, Wind @ 80m or 100m, etc
- Variables for downscaling?
- Variables for hurricane tracking and analysis

Resolution
- ½ deg or less
- ¼ deg necessary for clouds, "high res" – field level (agric.)

Summary of Community Needs

Data transfer
- Need sftp push
- Needs operational/reliable server for real-time fcsts
- How to handle models that don't deliver

Hindcasts
- Same overlap period
- Will they be done on the fly?

Benchmarks
- Operational reliability of component models
- Longevity of commitment from centers
- Forecast skill comparisons with persistence, operational models (evaluation protocol/standard)
- Should there be a set of requirements/benchmark for a model to participate?

Summary of Community Needs

Feasibility:
- Did not have the full allotment of NMME partners in our group
- Within our group, couldn't really answer the subseasonal viability question?
- Did have agreement in principle from two partners in our group

(but specifics need to be negotiated)